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PN - JP 55111063 A 19800827 [JP55111063]

TI - THIN BATTERY

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PA - CITIZEN WATCH CO LTD

AP - JP01889479 19790220 [1979JP-0018894]

IC1 - H01M-002/08

AB - PURPOSE: To enable mass production of a thin battery with excellent liquid leakage- proofness which has a thickness of less than 1mm by providing a package member consisting of glass fiber reinforced plastic and carbon and sealing it by means of seam welding.

- CONSTITUTION: The battery can 9 consisting of conductive materials is pressed in the outer frame 8 consisting of glass fiber reinforced plastic so as to overlap the packing 10 along the edge of the battery can 9. The negative flux 2 or the negative member 12 such as lithium, zinc, etc. is inserted in this battery can 9 and electrolyte 3 is injected. Then the separator 4 is put on it and the same flat protective member 13 as the packing 10 and the packing 11 are overlapped along the inside of the outer frame 8. Subsequently, the positive flux 1 is inserted. A thin battery is obtained by covering a lid using the sealing plate 15 consisting of the glass fiber reinforced carbon which has the same coefficient of thermal expansion and melting point as the outer frame 8 and seam welding the outer surface of the sealing plate 15 and the outer frame 8 with a laser processing machine.

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